

ABSTRACT OF THE DISCLOSURE

An aluminum nitride sintered body comprising crystal grains of an average grain size ( $D_{50}$ ) of 0.1 to 2.5  $\mu\text{m}$ , and having a pore area ratio of not larger than  $1 \times 10^{-7}$ , a pore density of not larger than 0.05 pores/ $\text{mm}^2$  of pores having diameters of not smaller than 1  $\mu\text{m}$ , and a Vickers' hardness in a range of 14 to 17 GPa. The aluminum nitride sintered body has a very small pore density despite of its relatively small crystal grain size, features excellent strength and mirror machinability, and is particularly useful as a material for circuit substrates on which fine wiring patterns are formed.